

**Expansible arthrodesis implant for insertion between vertebrae****Publication number:** FR2722679 (A1)**Publication date:** 1996-01-26**Inventor(s):** FELMAN DANIEL**Applicant(s):** FELMAN DANIEL [FR]; CORMALINE SA [FR]**Classification:****- international:** A61F2/44; A61B17/00; A61F2/00; A61F2/28; A61F2/30;  
A61F2/46; A61F2/44; A61B17/00; A61F2/00; A61F2/28;  
A61F2/30; A61F2/46; (IPC1-7): A61F2/44; A61F2/46**- European:** A61F2/44F**Application number:** FR19940009389 19940725**Priority number(s):** FR19940009389 19940725**Cited documents:**

-  US5123926 (A)
-  WO9000037 (A1)
-  US4599086 (A)
-  EP0554082 (A1)
-  WO9214423 (A1)

**Abstract of FR 2722679 (A1)**

The implant is dimensioned to fit between a pair of adjacent vertebrae, and has a composite cylindrical structure including a rigid external shell with a series of perforations through which retractable projections may extend. The projections are supported by a ring of shape-memory material which is ductile when refrigerated. The ring is initially cooled to allow insertion into the cylinder with the projections in a retracted position. When the ring is allowed to reach the temperature of the human body, it changes shape to allow the projections to extend through the perforations into the intervertebral space. The cylinder may be associated with one or more special surgical instruments designed to simplify its implantation.

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